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Volume 197, 2003

Published semimonthly by
The Rockefeller University Press
www.jem.org

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1065 ***Lawrence Steinman.*** Optic neuritis, a new variant of experimental encephalomyelitis, a durable model for all seasons, now in its seventieth year

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1073 ***Estelle Bettelli, Maria Pagany, Howard L. Weiner, Christopher Linington, Raymond A. Sobel, and Vijay K. Kuchroo.*** Myelin oligodendrocyte glycoprotein–specific T cell receptor transgenic mice develop spontaneous autoimmune optic neuritis

1083 ***Shengdian Wang, Jürgen Bajorath, Dallas B. Flies, Haidong Dong, Tasuku Honjo, and Lieping Chen.*** Molecular modeling and functional mapping of B7-H1 and B7-DC uncouple costimulatory function from PD-1 interaction

1093 ***Enric Esplugues, David Sancho, Javier Vega-Ramos, Carlos Martínez-A, Uta Syrbe, Alf Hamann, Pablo Engel, Francisco Sánchez-Madrid, and Pilar Lauzurica.*** Enhanced antitumor immunity in mice deficient in CD69

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1119 ***Gordon D. Brown, Jurgen Herre, David L. Williams, Janet A. Willment, Andrew S. J. Marshall, and Siamon Gordon.*** Dectin-1 mediates the biological effects of β-glucans

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1141 ***Julie M. Curtsinger, Debra C. Lins, and Matthew F. Mescher.*** Signal 3 determines tolerance versus full activation of naive CD8 T cells: dissociating proliferation and development of effector function

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1165 ***Philipp Oberdoerffer, Tatiana I. Novobrantseva, and Klaus Rajewsky.*** Expression of a targeted λ1 light chain gene is developmentally regulated and independent of Igκ rearrangements

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1213 ***Thomas Enzler, Silke Gillessen, John P. Manis, David Ferguson, James Fleming, Frederick W. Alt, Martin Mihm, and Glenn Dranoff.*** Deficiencies of GM-CSF and interferon γ link inflammation and cancer

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1255 ***Baohui Xu, Norbert Wagner, Linh Nguyen Pham, Vincent Magno, Zhongyan Shan, Eugene C. Butcher, and Sara A. Michie.*** Lymphocyte homing to bronchus-associated lymphoid tissue (BALT) is mediated by L-selectin/PNAd, $\alpha_4\beta_1$ integrin/VCAM-1, and LFA-1 adhesion pathways

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1291 ***Sarah K. Dickerson, Eleonora Market, Eva Besmer, and F. Nina Papavasiliou.*** AID mediates hypermutation by deaminating single stranded DNA

1297 ***Martin Hegen, Linhong Sun, Naonori Uozumi, Kazuhiko Kume, Mary E. Goad, Cheryl L. Nickerson-Nutter, Takao Shimizu, and James D. Clark.*** Cytosolic phospholipase $A_2\alpha$–deficient mice are resistant to collagen-induced arthritis

1303 ***Chisato Miyaura, Masaki Inada, Chiho Matsumoto, Tomoyasu Ohshiba, Naonori Uozumi, Takao Shimizu, and Akira Ito.*** An essential role of cytosolic phospholipase A2α in prostaglandin E2–mediated bone resorption associated with inflammation

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1323 ***Patricia Boya, Karine Andreau, Delphine Poncet, Naoufal Zamzami, Jean-Luc Perfettini, Didier Metivier, David M. Ojcius, Marja Jäättelä, and Guido Kroemer.*** Lysosomal membrane permeabilization induces cell death in a mitochondrion-dependent fashion

1335 ***Jun-Song Mo, Michael G. Anderson, Meredith Gregory, Richard S. Smith, Olga V. Savinova, David V. Serreze, Bruce R. Ksander, J. Wayne Streilein, and Simon W.M. John.*** By altering ocular immune privilege, bone marrow–derived cells pathogenically contribute to DBA/2J pigmentary glaucoma

1345 ***Katharina Gamerdinger, Corinne Moulon, David R. Karp, Jeroen van Bergen, Frits Koning, Doris Wild, Ulrike Pflugfelder, and Hans Ulrich Weltzien.*** A new type of metal recognition by human T cells: contact residues for peptide-independent bridging of T cell receptor and major histocompatibility complex by nickel

1355 ***Markus Sperandio, Michael L. Smith, S. Bradley Forlow, Timothy S. Olson, Lijun Xia, Rodger P. McEver, and Klaus Ley.*** P-selectin glycoprotein ligand-1 mediates L-selectin–dependent leukocyte rolling in venules

1365 ***Otto O. Yang, Phuong Thi Nguyen Sarkis, Ayub Ali, Jason D. Harlow, Christian Brander, Spyros A. Kalams, and Bruce D. Walker.*** Determinants of HIV-1 mutational escape from cytotoxic T lymphocytes

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1391 ***Audrey Seamons, Jennifer Sutton, Dina Bai, Emily Baird, Nena Bonn, Björn F.C. Kafsack, Jeffrey Shabanowitz, Donald F. Hunt, Craig Beeson, and Joan Goverman.*** Competition between two MHC binding registers in a single peptide processed from myelin basic protein influences tolerance and susceptibility to autoimmunity

1399 ***Correction***

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1417 ***Tomoko Jippo, Eiichi Morii, Akihiko Ito, and Yukihiko Kitamura.*** Effect of anatomical distribution of mast cells on their defense function against bacterial infections: demonstration using partially mast cell–deficient *tg/tg* mice

1427 ***Claire Dunn, N. Jan Chalupny, Claire L. Sutherland, Stephanie Dosch, P.V. Sivakumar, David C. Johnson, and David Cosman.*** Human cytomegalovirus glycoprotein UL16 causes intracellular sequestration of NKG2D ligands, protecting against natural killer cell cytotoxicity

1441 ***Sung Ouk Kim, Koh Ono, Peter S. Tobias, and Jiahuai Han.*** Orphan nuclear receptor Nur77 is involved in caspase-independent macrophage cell death

1453 ***Claudia Gonzalez-Espinosa, Sandra Odom, Ana Olivera, J. Peyton Hobson, Maria Eugenia Cid Martinez, Antonio Oliveira-dos-Santos, Lillian Barra, Sarah Spiegel, Josef M. Penninger, and Juan Rivera.*** Preferential signaling and induction of allergy-promoting lymphokines upon weak stimulation of the high affinity IgE receptor on mast cells

1467 ***Lin Leng, Christine N. Metz, Yan Fang, Jing Xu, Seamas Donnelly, John Baugh, Thomas Delohery, Yibang Chen, Robert A. Mitchell, and Richard Bucala.*** MIF signal transduction initiated by binding to CD74

1477 ***Laszlo Kari, Andrey Loboda, Michael Nebozhyn, Alain H. Rook, Eric C. Vonderheid, Calen Nichols, Dezso Virok, Celia Chang, Wen-Hwai Horng, James Johnston, Maria Wysocka, Michael K. Showe, and Louise C. Showe.*** Classification and prediction of survival in patients with the leukemic phase of cutaneous T cell lymphoma

1489 ***Yoshiki Akatsuka, Tetsuya Nishida, Eisei Kondo, Mikinori Miyazaki, Hirohumi Taji, Hiroatsu Iida, Kunio Tsujimura, Makoto Yazaki, Tomoki Naoe, Yasuo Morishima, Yoshihisa Kodera, Kiyotaka Kuzushima, and Toshitada Takahashi.*** Identification of a polymorphic gene, BCL2A1, encoding two novel hematopoietic lineage-specific minor histocompatibility antigens

1501 ***Ning Li, Valeria Aoki, Gunter Hans-Filho, Evandro A. Rivitti, and Luis A. Diaz.*** The role of intramolecular epitope spreading in the pathogenesis of endemic pemphigus foliaceus (fogo selvagem)

1511 ***Hae Won Sohn, Hua Gu, and Susan K. Pierce.*** Cbl-b negatively regulates B cell antigen receptor signaling in mature B cells through ubiquitination of the tyrosine kinase Syk

1525 ***Christa Pfeifhofer, Kurt Kofler, Thomas Gruber, Nassim Ghaffari Tabrizi, Christina Lutz, Karl Maly, Michael Leitges, and Gottfried Baier.*** Protein kinase C θ affects Ca^{2+} mobilization and NFAT cell activation in primary mouse T cells

1537 ***Laura Lasagni, Michela Francalanci, Francesco Annunziato, Elena Lazzeri, Stefano Giannini, Lorenzo Cosmi, Costanza Sagrinati, Benedetta Mazzinghi, Claudio Orlando, Enrico Maggi, Fabio Marra, Sergio Romagnani, Mario Serio, and Paola Romagnani.*** An alternatively spliced variant of CXCR3 mediates the inhibition of endothelial cell growth induced by IP-10, Mig, and I-TAC, and acts as functional receptor for platelet factor 4

1551 ***Ingunn H. Westgaard, Erik Dissen, Knut M. Torgersen, Sasha Lazetic, Lewis L. Lanier, Joseph H. Phillips, and Sigbjørn Fossum.*** The lectin-like receptor KLRE1 inhibits natural killer cell cytotoxicity

1563 ***Jean-François Lambert, Meng Liu, Gerald A. Colvin, Mark Dooner, Christina I. McAuliffe, Pamela S. Becker, Bernard G. Forget, Sherman M. Weissman, and Peter J. Quesenberry.*** Marrow stem cells shift gene expression and engraftment phenotype with cell cycle transit

1573 ***Jong-Dae Ji, Ioannis Tassiulas, Kyung-Hyun Park-Min, Ani Aydin, Ingrid Mecklenbräuker, Alexander Tarakhovsky, Luminita Pricop, Jane E. Salmon, and Lionel B. Ivashkiv.*** Inhibition of interleukin 10 signaling after Fc receptor ligation and during rheumatoid arthritis

1585 ***Shahrokh Falati, Qingde Liu, Peter Gross, Glenn Merrill-Skoloff, Janet Chou, Erik Vandendries, Alessandro Celi, Kevin Croce, Barbara C. Furie, and Bruce Furie.*** Accumulation of tissue factor into developing thrombi in vivo is dependent upon microparticle P-selectin glycoprotein ligand 1 and platelet P-selectin

1599 ***Correction***

1601 ***Correction***

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1603 ***Nicole J. Horwood, Tara Mahon, John P. McDaid, Jamie Campbell, Hiroyuki Mano, Fionula M. Brennan, David Webster, and Brian M.J. Foxwell.*** Bruton's tyrosine kinase is required for lipopolysaccharide-induced tumor necrosis factor α production

1613 ***Vallabhapurapu Sivakumar, Kirsten J.L. Hammond, Norma Howells, Klaus Pfeffer, and Falk Weih.*** Differential requirement for Rel/nuclear factor κB family members in natural killer T cell development

1623 ***Dirk Elewaut, Raziya B. Shaikh, Kirsten J.L. Hammond, Hilde De Winter, Andrew J. Leishman, Stephane Sidobre, Olga Turovskaya, Theodore I. Prigozy, Lisa Ma, Theresa A. Banks, David Lo, Carl F. Ware, Hilde Cheroutre, and Mitchell Kronenberg.*** NIK-dependent RelB activation defines a unique signaling pathway for the development of Vα14*i* NKT cells

1635 ***Elmar Jaeckel, Ludger Klein, Natalia Martin-Orozco, and Harald von Boehmer.*** Normal incidence of diabetes in NOD mice tolerant to glutamic acid decarboxylase

1645 ***Naglaa H. Shoukry, Arash Grakoui, Michael Houghton, David Y. Chien, John Ghrayeb, Keith A. Reimann, and Christopher M. Walker.*** Memory $CD8^+$ T cells are required for protection from persistent hepatitis C virus infection

1657 ***Joseph B. El Khoury, Kathryn J. Moore, Terry K. Means, Josephine Leung, Kinya Terada, Michelle Toft, Mason W. Freeman, and Andrew D. Luster.*** CD36 mediates the innate host response to β-amyloid

1667 ***Madhav V. Dhodapkar, Matthew D. Geller, David H. Chang, Kanako Shimizu, Shin-Ichiro Fujii, Kavita M. Dhodapkar, and Joseph Krasovsky.*** A reversible defect in natural killer T cell function characterizes the progression of premalignant to malignant multiple myeloma

1677 ***Kathryn A. Pape, Valerie Kouskoff, David Nemazee, H. Lucy Tang, Jason G. Cyster, Lina E. Tze, Keli L. Hippen, Timothy W. Behrens, and Marc K. Jenkins.*** Visualization of the genesis and fate of isotype-switched B cells during a primary immune response

1689 ***Chang-Hung Chen, Carole Seguin-Devaux, Nancy A. Burke, Timothy B. Oriss, Simon C. Watkins, Neil Clipstone, and Anuradha Ray.*** Transforming growth factor β blocks Tec kinase phosphorylation, Ca^{2+} influx, and NFATc translocation causing inhibition of T cell differentiation

1701 ***Petronela Ancuta, Ravi Rao, Ashlee Moses, Andrew Mehle, Sunil K. Shaw, F. William Luscinskas, and Dana Gabuzda.*** Fractalkine preferentially mediates arrest and migration of $CD16^+$ monocytes

1709 ***Remy Bosselut, Terry I. Guinter, Susan O. Sharrow, and Alfred Singer.*** Unraveling a revealing paradox: why major histocompatibility complex I–signaled thymocytes "paradoxically" appear as $CD4^+8^{lo}$ transitional cells during positive selection of $CD8^+$ T cells

1721 ***Xingluo Liu, Jian Xin Gao, Jing Wen, Lijie Yin, Ou Li, Tao Zuo, Thomas F. Gajewski, Yang-Xin Fu, Pan Zheng, and Yang Liu.*** B7DC/PDL2 promotes tumor immunity by a PD-1–independent mechanism

1731 ***Xu Hong, Lu Lei, and Rickard Glas.*** Tumors acquire inhibitor of apoptosis protein (IAP)-mediated apoptosis resistance through altered specificity of cytosolic proteolysis

1745 ***Mingfang Lu, Mei Zhang, Richard L. Kitchens, Susan Fosmire, Akira Takashima, and Robert S. Munford.*** Stimulus-dependent deacylation of bacterial lipopolysaccharide by dendritic cells

1755 ***Peter Vajkoczy, Sabine Blum, Mathias Lamparter, Reinhard Mailhammer, Ralph Erber, Britta Engelhardt, Dietmar Vestweber, and Antonis K. Hatzopoulos.*** Multistep nature of microvascular recruitment of ex vivo–expanded embryonic endothelial progenitor cells during tumor angiogenesis

1767 ***Bernardo Reina-San-Martin, Simone Difilippantonio, Leif Hanitsch, Revati F. Masilamani, André Nussenzweig, and Michel C. Nussenzweig.*** H2AX is required for recombination between immunoglobulin switch regions but not for intra-switch region recombination or somatic hypermutation

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1779 ***Yuichi Harada, Masamichi Muramatsu, Toshikatsu Shibata, Tasuku Honjo, and Kazumichi Kuroda.*** Unmutated immunoglobulin M can protect mice from death by influenza virus infection

1787 ***Clett Erridge, John Stewart, and Ian R. Poxton.*** Monocytes heterozygous for the Asp299Gly and Thr399Ile mutations in the Toll-like receptor 4 gene show no deficit in lipopolysaccharide signalling